

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A temperature sensor arrangement comprising:
a sensor cavity, a temperature sensing element being positioned along a center line of said sensor cavity and generating a signal indicating temperature of air flowing thereto; and
a generally cylindrical outer casing surrounding said sensor cavity, said outer casing including a pattern of ~~flow~~ air inflow passages arranged on a tubular surface of said outer casing for allowing air flow to said temperature sensing element in said sensor cavity so that said temperature sensing element senses temperature of air flowing generally transverse to said outer casing and entering said sensor cavity via said pattern of air inflow passages, said pattern of air inflow passages overlapping said temperature sensing element in a direction extending radially from said center line of said sensor cavity, said direction being generally transverse to the direction of air flow to said temperature sensor arrangement, said ~~flow~~ air inflow passages being angled such that there is no direct line of air flow from an exterior of said outer casing to said sensing element.
2. (Currently Amended) The temperature sensor arrangement according to claim 1, wherein said angled ~~flow~~ air inflow passages prevent airborne debris from directly impacting said temperature sensing element.
3. (Currently Amended) The temperature sensor arrangement according to claim 1, wherein said ~~flow~~ air inflow passages are generally circular holes.
4. (Original) The temperature sensor arrangement according to claim 1, further comprising:
a front face on one end of said generally cylindrical outer casing, said front face including a pattern of openings for evacuating debris from said sensor cavity.
5. (Original) The temperature sensor arrangement according to claim 1, wherein said temperature sensor arrangement is configured to protrude into an air passage, such that said generally cylindrical outer casing is substantially perpendicular to the airflow.

6. (Original) The temperature sensor arrangement according to claim 5, wherein said air passage is a duct of an aircraft.
7. (Original) The temperature sensor arrangement according to claim 6, wherein said aircraft duct is part of an aircraft bleed air system.
8. (Original) The temperature sensor arrangement according to claim 1, wherein said generally cylindrical outer casing is formed of stainless steel.
9. (Currently Amended) The temperature sensor arrangement according to claim 1, wherein said pattern of ~~flow~~ air inflow passages is formed by drilling into said generally cylindrical outer casing at an angle that is a function of a thickness dimension of said outer casing.
10. (Currently Amended) The temperature sensor arrangement according to claim 1, wherein the ~~flow~~ air inflow passages in said generally cylindrical outer casing are equally spaced.
11. (Currently Amended) A temperature sensor arrangement comprising:
 - a sensor cavity, a temperature sensing element being positioned along a center line of said sensor cavity and generating a signal indicating temperature of air flowing thereto; and
 - a generally cylindrical outer casing surrounding said sensor cavity, said outer casing including a pattern of ~~flow~~ air inflow passages arranged on a tubular surface of said outer casing for allowing air flow to said temperature sensing element in said sensor cavity so that said temperature sensing element senses temperature of air flowing generally transverse to said outer casing and entering said sensor cavity via said pattern of air inflow passages, said pattern of air inflow passages overlapping said temperature sensing element in a direction extending radially from said center line of said sensor cavity, said direction being generally transverse to the direction of air flow to said temperature sensor arrangement, said ~~flow~~ air inflow passages being

offset relative to a center line of the housing cavity such that there is no direct line of air flow from an exterior of said outer casing to said sensing element.

12. (Currently Amended) The temperature sensor arrangement according to claim 11, wherein said pattern of offset ~~flow~~ air inflow passages prevents airborne debris from directly impacting said temperature sensing element.

13. (Currently Amended) The temperature sensor arrangement according to claim 11, wherein said ~~flow~~ air inflow passages are generally circular holes.

14. (Original) The temperature sensor arrangement according to claim 11, further comprising:

a front face on one end of said generally cylindrical outer casing, said front face including a pattern of openings for evacuating debris from said sensor cavity.

15. (Original) The temperature sensor arrangement according to claim 11, wherein said temperature sensor arrangement is configured to protrude into an air passage, such that said generally cylindrical outer casing is substantially perpendicular to the airflow.

16. (Original) The temperature sensor arrangement according to claim 15, wherein said air passage is a duct of an aircraft.

17. (Original) The temperature sensor arrangement according to claim 16, wherein said aircraft duct is part of an aircraft bleed air system.

18. (Original) The temperature sensor arrangement according to claim 11, wherein said generally cylindrical outer casing is formed of stainless steel.

19. (Currently Amended) The temperature sensor arrangement according to claim 1, wherein said pattern of ~~flow~~ air inflow passages is formed by drilling into said generally cylindrical outer casing.

20. (Currently Amended) The temperature sensor arrangement according to claim 11, wherein the ~~flow~~ air inflow passages in said generally cylindrical outer casing are equally spaced.

21. (Currently Amended) A temperature sensor arrangement comprising:

a sensor cavity, a temperature sensing element being positioned along a center line of said sensor cavity and generating a signal indicating temperature of air flowing thereto;

a generally cylindrical outer casing surrounding said sensor cavity, said outer casing including a pattern of ~~flow~~ air inflow passages for allowing air flow to said temperature sensing element in said sensor cavity so that said temperature sensing element senses temperature of air flowing generally transverse to said outer casing and entering said sensor cavity via said pattern of air inflow passages, said pattern of air inflow passages overlapping said temperature sensing element in a direction extending radially from said center line of said sensor cavity, said direction being generally transverse to the direction of air flow to said temperature sensor arrangement, said ~~flow~~ air inflow passages being angled such that there is no direct line of air flow from an exterior of said outer casing to said sensing element; and

a front face on one end of said generally cylindrical outer casing, said front face including a pattern of openings for evacuating debris from said sensor cavity.

22. (Currently Amended) A temperature sensor arrangement comprising:

a sensor cavity, a temperature sensing element being positioned along a center line of said sensor cavity and generating a signal indicating temperature of air flowing thereto; and

a generally cylindrical outer casing surrounding said sensor cavity, said outer casing including a pattern of ~~flow~~ air inflow passages for allowing air flow to said temperature sensing element in said sensor cavity so that said temperature sensing element senses temperature of air

flowing generally transverse to said outer casing and entering said sensor cavity via said pattern of air inflow passages, said pattern of air inflow passages overlapping said temperature sensing element in a direction extending radially from said center line of said sensor cavity, said direction being generally transverse to the direction of air flow to said temperature sensor arrangement, said flow air inflow passages being angled such that there is no direct line of air flow from an exterior of said outer casing to said sensing element,

wherein said temperature sensor arrangement is configured to protrude into an air passage, such that said generally cylindrical outer casing is substantially perpendicular to the airflow.

23. (Currently Amended) A temperature sensor arrangement comprising:

a sensor cavity, a temperature sensing element being positioned along a center line of said sensor cavity and generating a signal indicating temperature of air flowing thereto;

a generally cylindrical outer casing surrounding said sensor cavity, said outer casing including a pattern of ~~flow~~ air inflow passages for allowing air flow to said temperature sensing element in said sensor cavity so that said temperature sensing element senses temperature of air flowing generally transverse to said outer casing and entering said sensor cavity via said pattern of air inflow passages, said pattern of air inflow passages overlapping said temperature sensing element in a direction extending radially from said center line of said sensor cavity, said direction being generally transverse to the direction of air flow to said temperature sensor arrangement, said flow air inflow passages being offset relative to a center line of the housing cavity such that there is no direct line of air flow from an exterior of said outer casing to said sensing element; and

a front face on one end of said generally cylindrical outer casing, said front face including a pattern of openings for evacuating debris from said sensor cavity.

24. (Currently Amended) A temperature sensor arrangement comprising:

a sensor cavity, a temperature sensing element being positioned along a center line of said sensor cavity and generating a signal indicating temperature of air flowing thereto; and

a generally cylindrical outer casing surrounding said sensor cavity, said outer casing including a pattern of ~~flow~~ air inflow passages for allowing air flow to said temperature sensing element in said sensor cavity so that said temperature sensing element senses temperature of air flowing generally transverse to said outer casing and entering said sensor cavity via said pattern of air inflow passages, said pattern of air inflow passages overlapping said temperature sensing element in a direction extending radially from said center line of said sensor cavity, said direction being generally transverse to the direction of air flow to said temperature sensor arrangement, said ~~flow~~ air inflow passages being offset relative to a center line of the housing cavity such that there is no direct line of air flow from an exterior of said outer casing to said sensing element,

wherein said temperature sensor arrangement is configured to protrude into an air passage, such that said generally cylindrical outer casing is substantially perpendicular to the airflow.